INSTALLATION INSTRUCTIONS





HARLEY DAVIDSON V-ROD | 2002-2014 F252 | T252

1>READ

WARNINGS > INSTALLING



- We strongly suggest that an experienced technician install this product.
- · Read through all instructions before beginning installation.
- This document is intended for use by qualified technicians.
- This is not a replacement for the factory Engine Control Unit (ECU).
- Refer to a factory service manual for more specific stock component identification/location information and removal/assembly procedures.

WARNINGS > USING



- Use only in race or other closed-course applications and never on public roads.
- Z-Fi products are not certified by the California Air Resource Board (CARB) for use on CA highways.

GETTING HELP



- Factory support is available in the US at 909-597-8300.
- · For fastest support outside of the US, find your local importer at bazzaz.net.

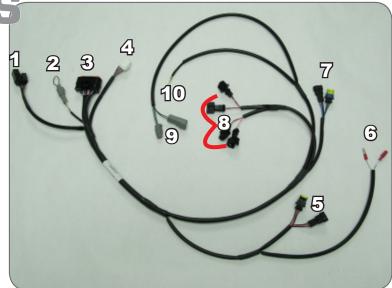
2>IDENTIFY

INCLUDED PARTS

- 1. Z-Fi/Z-Fi TC control unit
- 2. Fuel harness
- 3. Coil harness (For Z-Fi TC only)
- 4. Shift Switch and mounting hardware (For Z-Fi TC only)
- 5. USB cable
- 6. Swingarm stickers
- 7. Velcro
- 8. Download Bazzaz software from bazzaz.net/index.php/software-overview

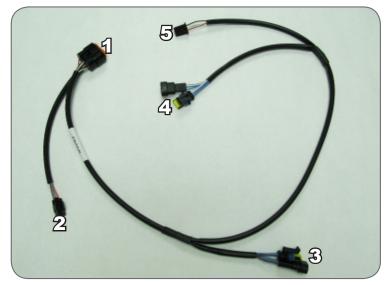
FUEL HARNESS

- 1. +12v SW Power
- 2. Map Select
- 3. Main
- 4. Z-AFM
- 5. Speed
- 6. Neutral
- 7. TPS
- 8. Injectors
- 9. CKPS
- 10. Ground



COIL HARNESS (Z-FI TC ONLY)

- 1. Main
- 2. TC Adjust Switch
- 3. Rear Coil
- 4. Front Coil
- 5. Shift Switch



3>REMOVE

- 1. Airbox cover
- 2. Airbox
- 3. Lift open the rider seat

4>SECURE

1. The Bazzaz control unit will be installed beneath the rider seat.



2. Connect the Bazzaz fuel harness to the control unit and begin routing the harness along the left hand side of the bike towards the throttle bodies.

CROUND INJECTORS

CATS

SPEED

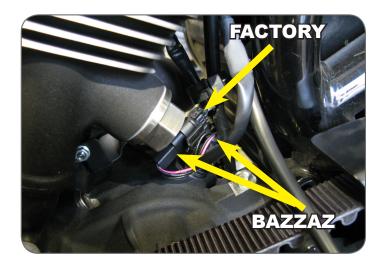
NEALTH

TRE

5>CONNECT

5.1

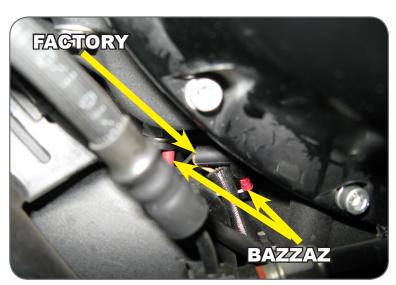
- 1. Route the Bazzaz speed/neutral leads towards the top left of the crank case.
- 2. Locate the factory speed sensor, which can be found on top of the factory crank case near on the left hand side of the bike near the drive belt.
- 3. Disconnect the factory speed sensor connector and install the Bazzaz speed connectors inline.

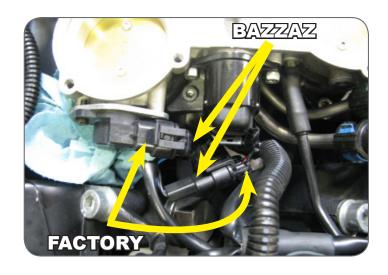


- Route the Bazzaz neutral sensor to the bottom of the motor between the crank case and oil tank.
- Locate the factory neutral sensor and disconnect the factory brown wire and install the Bazzaz neutral connectors inline.



- Locate the factory TPS
 connector, which can be found
 on the left hand side of the bike
 near the front throttle body.
- Disconnect the factory TPS connector and install the Bazzaz TPS connectors inline.

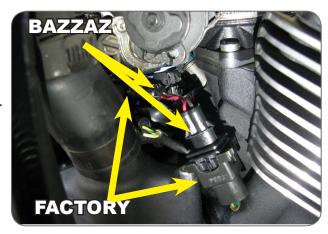




5>CONNECT (CONT.)

5.4

- 1. Locate the factory front and rear injector connectors which can be found between the two cylinders.
- Disconnect the factory front injector connector and install the Bazzaz front injector inline.
- 3. Repeat these steps for the rear injector.



5.5

- Continue to route the Bazzaz
 CKPS connectors and the ground lug towards the front of the bike.
- 2. Locate the factory negative terminal of the battery and install the Bazzaz ground lug.



- Locate the factory black CKPS connectors, which can be found on the left hand side of the bike near the rider foot rest.
- 2. Route the Bazzaz CKPS connectors to the factory location and connect the Bazzaz connectors inline.



5>CONNECT (CONT.)

5.7

- 1. Locate the factory black taillight connector, which can be found near the control unit location beneath the rider seat.
- 2. Disconnect the factory connector and install the Bazzaz switched power connector inline.



SECTION 6>CONNECT, AND 7>CUICKSHIFT ARE FOR USE WITH THE BATTLAT Z-FI TC ONLYH FOR Z-FI, PLEASE SKIP FORWARD TO SECTION 8>SECURE

6>CONNECT

6.1

(FOR USE WITH Z-FI TC ONLY!)

1. Connect the Bazzaz coil harness to the Bazzaz control unit and begin to route the harness along the left hand side of the bike.

TION TROOTS



REAR COIL

- Locate the factory rear coil connector which can be found on the top of the rear cylinder.
- 2. Disconnect the factory rear coil connector and install the Bazzaz rear coil connector inline.



6>CONNECT

6.3

- 1. Locate the factory rear coil connector which can be found on the top of the rear cylinder.
- 2. Disconnect the factory rear coil connector and install the Bazzaz rear coil connector inline.

(FOR USE WITH Z-FI TC ONLY!)



7>QUICKSHIFT

(FOR USE WITH Z-FI TC ONLY!)

- 1. Measure and note your shift pedal height so you may reposition the shift pedal once complete.
- 2. Remove the factory shift rod, and begin to install the Bazzaz shift rod onto each factory heim joint.
- 3. Next, begin to install the Bazzaz shift switch using both of the supplied allen stud bolts and tighten.
- 4. The shift rod may need to be cut to get your original shift pedal height.
- 5. Ensure to retighten all lock nuts on the shift linkage.



8>02 ELIMINATION

- 1. Locate both front and rear factory O2 sensor connectors.
- 2. Disconnect both front and rear O2 sensor and secure away from any hot or moving parts.

9>SECURE



Use the supplied cable ties to secure the harness neatly along the routing path free of any moving or hot components (which could cause damage or failure of the system).



10>CHECK



- 1. In order to check that the system is installed correctly, download the Bazzaz Z-Fi Mapper software at bazzaz.net.
- 2. Plug the USB cable into the control unit and computer.
- 3. Locate and open the Z-Fi Mapper software.
- 4. Check that the pre-programmed map matches the model of your bike on the fuel map page within the software. You can switch from map 1 to map 2 by unplugging the map select jumper on the Bazzaz fuel harness. Map 1 will be pre-programmed; depending on your model, there may be a preprogrammed map in the map 2 slot. If map 2 is blank, stock ECU settings are used. Make sure that the jumper is left plugged in or unplugged, depending on which map you choose.
- 5. Start the vehicle and begin to check that the following inputs read correctly on the fuel map page.
- RPM Make sure that the RPM is reading near what the vehicle is idling at.
- GPS The vehicle should read neutral (or whichever gear it is in). For
 motorcycles that use a Gear Position Sensor, the bike does not need
 to be running to do this. For motorcycles that use a speed sensor, the
 wheel must be spinning to read gear properly. This can be checked
 on a dynamometer or by using a rear stand. Use caution when testing
 componentry.
- TPS When throttle is applied, the TPS should read accordingly. Flyby-wire models must be running to check TPS. Normal cable operated throttles can be checked with just the key on, not running.

Also use software to:

- View and/or make adjustments to fuel maps
- Activate Z-AFM self mapper (sold separately)
- Save and load new fuel maps
- Re-calibrate throttle position sensor after throttle modifications
- View diagnostics for troubleshooting
- Change quickshift settings
- Make traction control adjustments



If any problem is found, please carefully follow through the installation steps again.



If problem still persists, please contact Bazzaz tech support

- Factory support is available in the US at 909-597-8300.
- For fastest support outside of the US, find your local importer at bazzaz.net

11>REINSTALL

After it is determined that everything is correct. reinstall the components removed in step 3.

12>USE





MAPS

The Bazzaz controller is capable of storing two maps.

Switch maps by connecting or disconnecting the map select jumper supplied with the kit.

Or use the optional handlebar-mounted switch to switch maps on the fly (sold separately).

13>NEXT LEVEL MAP SELECT SWITCH

Purchased separately.

Switch maps on the fly with this handlebarmounted switch.

Weatherproof toggle and easy installation.

79.95



SELF MAPPER

Purchased separately.

Build race-level fuel maps for your specific modifications, fuel type, engine, and atmospheric conditions simply while riding.

02 sensor mounts into exhaust and control box easily plugs in to any Bazzaz Z-Fi product. 299.95



MAP SELECT/ TC ADJUST SWITCH

Purchased separately.

Switch maps on the fly with this handlebar-mounted switch. Quickly adjust traction control settings using a 10-point dial. Weatherproof toggle and easy installation.

129.95



TC ACTIVE LIGHT

Purchased separately.

Illuminates when traction control is engaged. Helpful in determining when and where traction control is being actuated.





THE SMARTEST PERFORMANCE TUNING TECHNOLOGY



F252 |T252